

IN THE CLAIMS:

Amend claims 1, 3-6, 8-10, 14 and 17 as follows:

1. (Currently Amended) A method of transmitting an anisochronic data stream from a data source to a data sink over an isochronic transmission network having a plurality of channels, comprising:

receiving data from the data source, and reserving at least two of the plurality of channels to provide reserved channels for transmission of data from the transmitter onto the transmission network, where the cumulative transmission capacities of the reserved channels exceeds the bandwidth of the ~~asynchronous~~ anisochronic data stream;

partitioning data of the anisochronic data stream into packets;

filling bit locations of the packets not required to transmit the anisochronic data with filler data, and providing packetized data indicative thereof; and

providing the packetized data for transmission over at least one reserved channel of the transmission network.

2. (Previously Presented) The method of claim 1, where the step of providing the packetized data comprises inserting a synchronization pattern into the packetized data before data associated with the anisochronic data, to identify the portions of the data of the packetized data as data indicative of the anisochronic data.

3. (Currently Amended) The method of claim 12, where the packets each contain the same data quantity.

4. (Currently Amended) The method of claim 12, where the reserved channels are time multiplexed channels, and the transmission network includes a time division multiplexed bus.

5. (Currently Amended) The method of claim 14, where the anisochronic data stream comprises audio data.

6. (Currently Amended) The method of claim 15, where the transmission network comprises a MOST network.

7. (Previously Presented) The method of claim 6, where the MOST network operates at a frequency of 44.1 kHz, and the anisochronic data stream has a frequency of 48 kHz or an integer multiple thereof.

8. (Currently Amended) The method of claim 17, where the data source comprises a DVD player.

9. (Currently Amended) The method of claim 17, where the data source comprises a CDDVD player.

10. (Currently Amended) A data transmission system, comprising:

a data bus;

a data source that provides an anisochronic data stream;

a transmitter that receives the anisochronic data stream, assigns a plurality of channels associated with the data bus for transmission of data indicative of the anisochronic data stream, partitions the anisochronic data into a plurality of packets and fills unused bit locations of each

packet with filler data, and provides output packets indicative thereof;

a first bus interface that receives the output packets and transmits the output packets onto the data bus;

a second bus interface that receives the ~~an~~ output packets transmitted onto ~~on~~ the data bus, and provides input packets indicative thereof; and

a receiver that receives and processes the input packets to recover the anisochronic data stream, and provides a recovered anisochronic data stream indicative thereof.

11. (Previously Presented) The data transmission system of claim 10, where the data bus includes a MOST bus.

12. (Previously Presented) The data transmission system of claim 11, where the data source includes a DVD player.

13. (Previously Presented) The data transmission system of claim 10, where the MOST bus operates at a frequency of 44.1 kHz, and the anisochronic data stream has a frequency of 48 kHz or an integer multiple thereof.

14. (Currently Amended) The data transmission system of claim 13, where the reserved channels comprise ~~are~~ time multiplexed channels, and the data bus is configured and arranged as a time division multiplexed bus.

15. (Previously Presented) The data transmission system of claim 10, further comprising an

intermediate memory device where the transmitter stores data indicative of the anisochronic data stream, and when a certain amount of data associated with the anisochronic data stream has been stored in the intermediate memory, the transmitter initiates providing the output packets.

16. (Previously Presented) The data transmission system of claim 15, where the transmitter also provides to the first bus interface a synchronization pattern that is transmitted over the data bus prior to each of the packets associated with the anisochronic data stream to identify to the receiver the data associated with the anisochronic data stream.

17. (Currently Amended) An apparatus for transmitting an anisochronic data stream from a data source to a data sink over an isochronic transmission network having ~~with~~ a plurality of channels, comprising:

means for receiving data from the data source, and for reserving at least two of the plurality of channels to provide reserved channels for transmission of data from the transmitter onto the transmission network, where the cumulative transmission capacities of the reserved channels exceeds the bandwidth of the ~~asynchronous~~ anisochronic data stream;

means for partitioning data of the anisochronic data stream into packets;

means for filling bit locations of the packets not required to transmit the anisochronic data with filler data, and for providing packetized data indicative thereof; and

means for providing the packetized data for transmission over at least one reserved channel of the transmission network.